World's smallest Blu-ray Disc™ notebook

MOBILE PC PERFORMANCE

Enjoy the performance of Intel® Centrino® processor technology with an Intel® Core™ 2 Duo SU9400 processor (1.40GHz[1]) with 3MB of L2 cache. Available with up to 4GB of pre-installed system memory.

The VAIO® TT Configure-to-Order notebook comes pre-installed with your selection of Genuine Microsoft® Windows Vista® Ultimate 32-bit with SP1, Business 32-bit with SP1 or Home Premium 32-bit with SP1.

Solid state drive provides a faster, more durable storage solution and are available depending on configuration.

11.1"[5] display with XBRITE-DuraView™ technology with LED backlight for a brighter LCD with 100% color saturation and scratch-resistant coating.

ULTRAPORTABLE ELEGANT DESIGN

Thin and lightweight, weighing in at only 2.87 lbs[8].

The VAIO® TT notebook is available in a Premium Carbon Fiber Casing, a Sony Style exclusive, Champagne Gold, Crimson Red or Silk Black.

Active Noise Canceling technology and supplied headphones provide crystal-clear audio in noisy mobile scenarios.

HD ENTERTAINMENT

Enjoy HD movies on the world's smallest Blu-ray Disc™ notebook[16] (Depending on configuration).

Record 25-50GB of data and HD content to a single Blu-ray Disc™ media[17] (Depending on configuration).

HDMI™ output provides single-cable full 1080p HD connectivity to a compatible HDTV[14].

WIRELESS FREEDOM

Offering a massive boost in wireless connection speed and range with 802.11n integrated wireless LAN technology[3].

Stereo Bluetooth® technology[14] for wirelessly connecting to useful peripherals and streaming CD-quality audio.

The ultraportable VAIO® TT notebook establishes a new grade in mobility with its thin-and-light design and carbon fiber exterior. What's more, this PC with a stunning 11.1"[5] LCD offers industry-leading mobile performance, balancing the power of Intel® Centrino® 2 processor technology and optional Blu-ray Disc™ playback[16] and recording [17] and a host of energy-conserving features that deliver maximum battery life.

VGN-TT190 Configure-to-Order

VAIO® TT Notebook Configure-to-Order PC

Specifications

General

Computer Type: Notebook
Type of Use: Ultra Portable
Action Buttons: Mute, Volume - / +, S1, Eject, WLAN / Bluetooth® on / off
Pointing Device: Electro-static touch pad
Security: Biometric Fingerprint Sensor
Trusted Platform Module (TPM) TCG Ver.1.2 compliant

Hardware

Keyboard: QWERTY, 82 keys, 17mm pitch, 2mm stroke
Camera: Built-in MOTION EYE® camera and microphone with face-tracking technology

Processor

Type: Intel® Core™ 2 Duo Processor SU9400
Speed: 1.40 GHz[1]
Front Side Bus Speed: 800MHz
L2 Cache: 3MB
Technology: Intel® Centrino® 2 processor technology

Memory

Type: DDR3
Installed: 4GB[15] PC3-6400 (2GBx2), 3GB PC3-6400 (2GBx1 +1GBx1) or 2GB PC3-6400 (2GBx1)
Maximum: 4GB[15]
Speed: 800MHz

Hard Drive

Capacity: Optional 320GB[2], 250GB[2], 160GB[2] or 120GB[2] (Available depending on configuration)
Speed: 5400rpm
Interface: SATA

Optical Drive #1

DVD+R DL Write: 4x max.
DVD+RWrite: 8x max.
DVD+RW Write: 4x max.
DVD-RWrite: 8x max.
DVD-RW Write: 4x max.
CD-RWrite: 16x max.
CD-RW Write: 10x max.
CD Read: 24x max.
DVD Read: 8x max.
DVD-RAM Write: 5x max.
DVD-R DL Write: 4x max.
BD-R Read: 2x max. (Blu-ray Disc™ only)
BD-RWrite: 2x max.[17] (Blu-ray Disc™ only)
BD-RE Write: 2x max.[17] (Blu-ray Disc™ only)
BD-ROM Read: 2x max. (Blu-ray Disc™ only)
BD-RE Read: 2x max. (Blu-ray Disc™ only)
BD-R DL Read: 2x max. (Blu-ray Disc™ only)
BD-R DL Write: 1x max.[17] (Blu-ray Disc™ only)
DVD-RAM Read: 5x max.
Blu-ray Disc™ Support: Optional Read / Write[16,17] (BD-R / -RE / ROM / DVD±RW / ±R DL / RAM Drive) - Blu-ray Disc™ technology only available if 4GB RAM is selected. Optical Drive not available if Solid State Drive and Hard Disk Drive is selected.
BD-RE DL Read: 2x max. (Blu-ray Disc™ only)
BD-RE DL Write: 1x max.[17] (Blu-ray Disc™ only)

Expansion Slots

Multimedia Card Reader: One Memory Stick PRO™ (Standard / Duo) media slot with MagicGate® functionality
One ExpressCard® / 34 slot
One Secure Digital (SD™ memory card) media slot

Solid State Drive

Capacity: 256GB (128GBx2 / RAID), 128GB (64GBx2 / RAID), 128GB or 64GB - Depending on configuration
Interface: SATA

Audio

Sound System: Intel® High Definition Audio

Display

Screen or Display Technology: WXGA
Screen Size: 11.1"[4,5]
Resolution: 1366 x 768
XBRITE-DuraView™ Technology: Yes
Back Light Technology: LED

Graphics

Processor: Mobile Intel® Graphics Media Accelerator 4500MHD with Intel® Clear Video Technology
Total Available Graphics Memory: 1300MB (max.)[9]
Chipset: Mobile Intel® GS45 Express Chipset
Interface: HDMI™ and VGA out with Smart Display Sensor

Inputs and Outputs

HDMI™ Connection Output(s): 1[4]
Headphone Jack: 1
Microphone Input: 1
Port Replicator Connector(s): 1 (Bottom)
USB Port(s): 2 (2.0 compliant)
VGA Output(s): 1
DC-In: 1
i.LINK® Connection: 1 (4pin) i.LINK® connector (IEEE 1394)[8]
Ethernet Connection (s): 1

Networking / Modem

Ethernet Protocol: 10Base-T / 100Base-TX / 1000Base-T (Gigabit)
Ethernet Speed: Fast Ethernet (RJ-45)
Wireless LAN: Intel® WiFi Link 5100AGN (802.11a / b / g / n)[3]
Wireless WAN: Optional Sprint® Mobile Broadband Service[18] - Only available on Premium Carbon Fiber configuration
Bluetooth® Technology: Integrated Stereo A2DP Bluetooth® Technology[24]

Power

Battery Type: Standard Capacity Lithium-ion Battery (VGP-BPS14) or Large Capacity Lithium-ion Battery (VGP-BPL14). Available in black or silver depending on color configuration.
Power Requirements: 68W + 10%
Input Voltage: 100-240V

Software

Operating System: Genuine Microsoft® Windows Vista® Ultimate 32-bit with SP1 and XP Pro downgrade, Windows Vista® Business 32-bit with SP1 and XP Pro downgrade, or Windows Vista® Home Premium 32-bit with SP1
XP Pro downgrades not available with Blu-ray Disc™ configurations or Solid State Drive with RAID technology configurations
Internet Services: AOL® 90-Day Risk Free Trial - For new users only
Supplied Software: Microsoft® Works SE 9.0 w / 60-Day Trial Version of Microsoft® Office Home and Student 2007[12] (with Windows Vista® Ultimate or Home Premium) or Small Business 2007 (with Windows Vista® Business)
The VAIO® Software Experience: VAIO® Startup Assistant
Click to Disc Editor - Import, Edit, Burn
VAIO® Movie Story - Simple Movie Creation
VAIO® MusicBox - Music by Mood
VAIO® Media plus - Multimedia Streaming Software
*Please access VAIO® Help and Support from your PC for a complete list of software applications and trials.
Anti-Virus & Recovery Software: Microsoft® Windows Live™ OneCare™ Trial Version[13]

Service and Warranty Information

Telephone Support: 1 year toll-free technical telephone assistance, available 24 / 7[11].
Online and Email Support: Support available from http: / / www.esupport.sony.com / EN / VAIO
Limited Warranty Term: 1 year limited warranty[20]. See actual warranty for details.

Environmental Information

RoHS®: Compliant
For more information: www.sony.com / vaioeco

Dimensions

Weight: 2.87 lbs.[7]
Measurements: 10.99"(W) x 0.93"(H) x 7.87"(D)[6,7]

Supplied Accessories

Noise-Canceling Headphones
Power Cord
AC Adapter (VGP-AC16V13)
Standard Capacity Lithium-ion Battery (VGP-BPS14) or Large Capacity Lithium-ion Battery (VGP-BPL14)

Optional Accessories

Stick AC Adapter (VGP-AC16V10)
Port Replicator (VGP-PRTT1)
Leather Notebook Cover (VGP-CVTT1)
Neoprene Case (VGP-AMC6)
Bluetooth® Laser Mouse[14] (VGP-BMS33 / B)
Bluetooth® Laser Mouse[14] (VGP-BMS33 / R)
Bluetooth® Laser Mouse[14] (VGP-BMS33 / NJ)
Bluetooth® Presentation Controller[24] (VGP-BRMP10)
USB Portable Speaker (VGP-USP1)
Privacy Filter (VGP-FL13)

Color: Champagne Gold, Crimson Red, Premium Carbon Fiber Black (Sony Style exclusive), Silk Black

1. GHz denotes microprocessor internal clock speed; other factors may affect application performance. CPU speed will be reduced under certain operating conditions.
2. GB means one billion bytes when referring to hard drive capacity.
3. Requires 802.11n compatible access point. Some functionality may require Internet services.
4. Requires high definition-capable display with HDMI™ connector. Image quality will vary.
5. Viewable area measured diagonally.
6. Non-metric weights and measures are approximate and may vary.
7. Measured at the narrowest point.
8. i.LINK is a trademark of Sony used only to designate that a product contains an IEEE 1394 connector. All products with an i.LINK connector may not communicate with each other.
9. Total Available Graphics Memory refers to the new Windows Vista® classification of graphics memory, which is the total of Dedicated Video Memory, System Video Memory and Shared System Memory. Shared System Memory varies depending on the operating condition, driver software version and system memory size.
10. See actual limited warranty for details. For a copy of Sony's warranty, please visit www.esupport.sony.com, call toll-free 888-476-6972 (888-4SONYPC), or write to Sony Electronics, 12451 Gateway Boulevard, Fort Myers, FL 33913.
11. For certain third party software applications, Sony provides first level phone support. Additional telephone support may be available from the applicable 3rd party vendor. Availability and schedule for any such support is determined by the applicable software vendor.
12. 60-Day Trial Version of Microsoft® Office 2007 - This trial software will work only for 60 days after you first use it. You will not be able to use the software if you do not activate it as described the first time you use the software. You can activate the software by Internet: Internet service charges may apply. If you want to keep using the software after the 60-day trial period, you must convert to the perpetual version. You can convert online by following the conversion instructions presented during setup and paying the required fees.
13. Microsoft® Windows Live™ OneCare™ Trial Version - This trial software will work for ninety (90) days after you first use it. You will not be able to use the software if you do not activate it as described the first time you use the software. You can activate the software by Internet: Internet service charges may apply. If you want to keep using the software after the 90-day trial period, you must buy a subscription. You can subscribe online by following the conversion instructions presented during setup and paying the required fees.
14. Interoperability and compatibility among Bluetooth® devices varies.
15. A portion of the system memory over 3GB may not be available to the operating system.
16. Certain circumstances may limit / prevent Blu-ray Disc™ media playback. For optimal performance, download all updates from http: / / esupport.sony.com / EN / DRIVERS.
17. Video recording to Blu-ray Disc™ media is done in MPEG2 and AVC formats only.
18. Free Month Offer: Limited time offer. Subject to change. You will be charged a regular monthly fee for your selected connection card plan. A one month service credit will be applied to your account within 1-3 bill cycles. Service credit will be for the amount of the monthly rate charge only. See www.sony.com / sprint for complete offer details, price plans, service terms and conditions, and coverage map. Click the Sprint icon on your VAIO notebook's desktop for service activation. Coverage not available everywhere – see coverage map for details. Credit approval and $200 early termination fee applies if not cancelled within the first 30 days. Service defaults to Nationwide Sprint PCS Network, where available, if Sprint Mobile Broadband Network is unavailable. Not available while roaming. Terms & Conditions and additional restrictions apply. May not be combined with other offers.

Computer Interface: For this product, there are a multitude of varying software packages and add-on hardware options. This product is not manufactured to work with any specific software, and Sony does not and cannot make any warranty or representation with respect to the performance of this product with any particular software packages and / or non-Sony add-on hardware options except those mentioned here. Sony hereby disclaims any representations or warranties that this product is compatible with any combination of non-Sony products you may choose to connect to it. While Sony representatives or Sony authorized dealers may be able to assist you and may make recommendations, they are NOT authorized to vary or waive this disclaimer. Purchasers must determine for themselves the suitability and compatibility of the hardware and software in each and every particular instance. Software titles pre-installed on the Sony computer are subject to change without notice. Preinstalled software may not be identical to retail versions or have all documentation. Features and specifications are subject to change without notice.
Lamp in this product contains mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance (www.eiae.org).
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Printed 09 / 08.